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gressing. The newly-published volume is devoted to the Black Earth region, including the provinces of Ryazan, Tula, Orlov, Tambov, Penza, Voronezh, and Kursk. The book describes the topography, geological formation, rivers, soils, climate, fauna, and other features. Particularly detailed descriptions are given of the more densely-peopled regions in the order of their distribution along the railroad lines or tributary to them. The book has 123 illustrations, 35 diagrams, and one large and ten small maps.

On the Lakes of Southeastern Wisconsin. By N. M. Fenneman, Ph. D., Professor of Geology, University of Colorado. Pp. 178, Index, 36 plates of half-tone illustrations, 38 figures in the text and a small geological map of Wisconsin. (No. VIII. of the Wisconsin Geological and Natural History Survey, Educational Series, No. 2.) Madison, Wis., 1902.

This well-written and interesting volume is devoted to the physical geography of the lakes of Wisconsin, and is specially intended to assist teachers in the southeast part of the State to use the natural features of that region as an aid to understanding the principles of physical geography and geology. Teachers and students who may visit these beautiful lakes for purposes of physiographical study are to be congratulated upon having so helpful a guide.

NOTES AND NEWS.

THE NEXT MEETING of the Society will be held at Mendelssohn Hall, No. 119 West Fortieth Street, on Tuesday, the 17th of March, 1903, at 8.30 o'clock P.M.

Mr. Harry de Windt will address the Society on the incidents of a journey From Paris to New York by Land.

On the 14th of April Mr. E. L. Corthell will recount his observations and experiences during Two Years in Argentina as Consulting Engineer of the Ministry of Public Works.

Prof. E. L. Stevenson's paper on Martin Waldseemüller and the Earliest Cartography of the New World (announced for the 17th of February and postponed on account of a snowstorm) will be read before the Society in November.

The Peary steamer *Windward*, presented five years ago to Mr.

Peary by Mr. Alfred C. Harmsworth, of London, was sold in February to Capt. Bernhard Jensen, of Christiania, Norway. Built at Peterhead, Scotland, about forty years ago for the whale fishery, the *Windward* has passed three winters in the Arctic—the first in 1894–95, at Franz Josef Land, whence, after landing the Jackson-Harmsworth party, she was unable to extricate herself; the second, at Allman Bay, seventy miles north of Cape Sabine, on the eastern coast of Grinnell Land, as Commander Peary's headquarters during the winter of 1898–9; and the third at Payer Harbour, near Cape Sabine, with Mrs. Peary and Miss Peary on board, in the winter of 1900–01, where Commander Peary came on board May 6, 1901, on his journey southward from Fort Conger. The *Windward* has twice been thoroughly repaired by the Peary Arctic Club, new engines of high power, giving her more than double the former speed, having been installed at the Newburgh (N. Y.) works of T. C. Marvel & Co., last summer.

Capt. Jensen, Commander of the *Antarctic* and Sir George Newnes' *Southern Cross*, in their voyages to the South polar zone, will transfer the *Windward* to a corporation to carry on whaling under the Russian flag, in East Asiatic waters. Thence she will proceed by way of Kerguelen Island for sea lions and seal to be sold at Melbourne, Australia, in February of next year, and be associated with the *Rex*, which made a successful cruise last year in waters found profitable by the Japanese. The *Windward* will be fitted for her new work at Christiania.

A series of observations has been made by the United States Geological Survey on certain streams in the Catskill region and lower Hudson Valley, which are being studied in connection with possible future use for the supply of New York City. The results of the investigation are published in No. 76 of the series of Water-Supply and Irrigation Papers.

One of the objects of hydrographic engineers in measuring the flow of streams has been to determine the line of mean velocity of the flowing water. Through experiments on the Catskill, Esopus, Rondout, and Fishkill creeks and on the Wallkill and Housatonic Rivers it has been ascertained that the mean velocity for small vertical sections 5 to 10 feet in width is found at or very near a point six-tenths the depth of the stream.

The same investigations were carried on when these streams were frozen over, and it was noted that the ice-covering had the effect of making two points of mean velocity in any given vertical

section—namely, at approximately 0.13 and 0.73 of the total depth measured from the bottom of the ice.

In addition to these studies, observations were made to determine the amount of turbidity, colour, alkalinity, and hardness of the waters of these streams under the varying conditions of high and low stages.

TRANSACTIONS OF THE SOCIETY.

JANUARY—FEBRUARY, 1903.

The Annual Meeting of the Society was held at Mendelssohn Hall, No. 119 West Fortieth Street, on Tuesday, January 27, 1903, at 8.30 o'clock P.M.

Vice-President Moore in the chair.

The following persons, recommended by the Council, were elected Fellows:

William Redmond Peters, John R. Gibney, Edward D. Adams.

The Annual Report of the Council was then submitted and read:

NEW YORK, January 8, 1903.

To the American Geographical Society:

The Council respectfully submit the following report for the year 1902:

The number of Fellows on the 1st of January was 1,206. The additions during the year number 85. The losses by death, resignation, etc., were 93, and the total Fellowship on the 31st of December was 1,198, of which number 345 were Life Fellows.

The additions to the Library number 3,673: Periodicals and Pamphlets, 2,618; Books, 734; Maps and Charts, 298, and Atlases, 23.

Six meetings of the Society were held in the year:

On the 21st of January Mr. Alden Sampson described his visit to Palmyra;

On the 18th of February Mr. Richard E. Dodge read a paper on Life Conditions in a Desert, with special reference to the Southwestern United States;

On the 18th of March M. Hugues Le Roux described in French a Visit to the Emperor Menelik;

On the 15th of April Mr. Carl Lumholtz read a paper on the Huichol Indians of Mexico;

On the 18th of November Civil Engineer R. E. Peary addressed the Society on the work of the Peary Arctic Club in the Arctic, 1898-1902;

On the 23d of December Mr. George S. Morison addressed the Society on the Panama Canal.

There have been published in the BULLETIN, besides the Record and Scientific Notes and Letters, Seventeen original papers.